

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/785,178

Filing Date:

February 25, 2004

Applicant:

Jong-Heui SONG et al.

Group Art Unit:

2812

Examiner:

Unknown

Title:

METHOD OF ETCHING A SILICON NITRIDE FILM

AND METHOD OF MANUFACTURING

SEMICONDUCTOR DEVICE USING THE SAME

Attorney Docket:

9862-000020/US

U.S. Patent and Trademark Office 220 20th Street S. Customer Window Mail Stop <u>Amendment</u> Crystal Plaza Two, Lobby, Room 1B03 Arlington, VA 22202 January 6, 2005

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. Submitted herewith is a legible copy of (i) each U.S. patent application
publication and U.S. and foreign patent; (ii) each publication or that portion which
caused it to be listed; (iii) for each cited pending U.S. application, the application
specification including the claims, and any drawing of the application which caused i
to be listed including the claims directed to that portion; and (iv) all other information
or that portion which caused it to be listed.

B.
Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously

cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

	U.S. Serial Number	U.S. Filing Date	<u>e</u>
	C. Because the present application copies of the U.S. patents or U.S. patent the attached Form 1449 are enclose § 1.98(a)(2)(i). Any foreign patent docattached Form 1449 are enclosed herewing	t application publications which ared pursuant to the waiver of cuments or non-patent literature list	re listed on 37 C.F.R.
	D. This is a PCT application in the eral A copy of the International Search Report The documents listed on the Internation Form-1449 for consideration by the Example from this application. Since the Internation JPO search authorities, copies of the USPTO under the trilateral agreement a identified application. (MPEP 1893.03)	ort is attached for the Examiner's in nal Search Report are listed on the aminer and for listing on any pater ational Search Report was from the se references should have been sup- and are believed to be in the file of	he attached nt resulting e US, EPO, plied to the
III.	CONCISE EXPLANATION OF THE F	ELEVANCE (check at least one be	ox)
	A. Except as may be indicated bell other information are in the English lang	ow in (B), all of the patents, pubguage (concise explanation not requ	lications or uired).
	B. A concise explanation of the rinformation listed that is not in the En 1.98(a)(3)):	elevance of each patent, publication glish language is as follows (see	on or other 37 C.F.R. §
-	foreign application: 12/2	atent office communication from a 16/2004 Korean Office Action.t is provided for: JP 2001-0203208	counterpart
	C. The following additional ir consideration.	formation is provided for the	Examiner's
IV.	CROSS REFERENCE TO RELATED	APPLICATION(S)	
	A. The Examiner is advised the contain(s) subject matter that may be this(these) application(s) to the Examiner	nat the following co-pending application application. her's attention, Applicant(s) does(do	By bringing

III.

Art Unit Filing Date Serial No.

the confidentiality provisions of 35 U.S.C. § 122.

V. THIS IDS IS BEING FILED UNDER

A. 🛛 3	7 C.F.R. § 1.97(b): (check <u>only</u> one box)
	1. within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
	2. within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
	3. before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
	4. before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.
В. 🗌 3	37 C.F.R. § 1.97(c): (check <u>only</u> one box)
	before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.
	1. No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
	2. See the certification below. No fee is required.
C. 🗌	37 C.F.R. § 1.97(d):
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
	1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box) VI. The undersigned hereby certifies that: A. a each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, if applicable; or B. _ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)). C. Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. VII. STATEMENT UNDER 37 CFR 1.704(d) The undersigned hereby states that: | each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS. PAYMENT OF FEES (check only one box) VIII. A. A check in the amount of \$180.00 is enclosed for the above-identified fee. B. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

above-indicated fee. A duplicate copy of this paper is attached.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

HARNESS, DICKEY, & PIERCE, P.L.C.

Bv

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JAC/GPB:ewd

Enclosures:

Form PTO-1449(s)

Documents

Foreign Search Report

Fee

Other:

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE

PATENT AND TRADEMARK OFFICE
NFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Sheet 1 of 1

ATTORNEY DOCKET NO.	SERIAL NO.		
9862-000020/US	10/785,178		
APPLICANT			
Jong-Heui SONG et al.			
FILING DATE GROUP			
February 25, 2004	2812		

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
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FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	n No
		JP2001-203208	7/27/2001	Japan		ABS	

ОТНЕ	R DOCUMENT	S (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials			
		Korean Patent Office Action dated December 16, 2004.		
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Examiner:	Date Considered:
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